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Mucosal immune response to specific outer membrane proteins of *Moraxella catarrhalis* in young children.

Pediatr Infect Dis J. 2003 Mar;22(3):256-262.

PMID: 12634588 [PubMed - as supplied by publisher]

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- ☐ 2: [Murphy TF, Kirkham C, Liu DF, Sethi S.](#) Related Articles, Links



Human immune response to outer membrane protein CD of *Moraxella catarrhalis* in adults with chronic obstructive pulmonary disease.

Infect Immun. 2003 Mar;71(3):1288-94.

PMID: 12595444 [PubMed - indexed for MEDLINE]

- ☐ 3: [Luke NR, Karalus RJ, Campagnari AA.](#) Related Articles, Links



Inactivation of the *Moraxella catarrhalis* superoxide dismutase SodA induces constitutive expression of iron-repressible outer membrane proteins.

Infect Immun. 2002 Apr;70(4):1889-95.

PMID: 11895952 [PubMed - indexed for MEDLINE]

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- ☐ 4: [Murphy TF, Brauer AL, Yuskiw N, McNamara ER, Kirkham C.](#) Related Articles, Links



Conservation of outer membrane protein E among strains of *Moraxella catarrhalis*.

Infect Immun. 2001 Jun;69(6):3576-80.

PMID: 11349016 [PubMed - indexed for MEDLINE]

- ☐ 5: [Murphy TF, Brauer AL, Yuskiw N, Hiltke TJ.](#) Related Articles, Links



Antigenic structure of outer membrane protein E of *Moraxella catarrhalis* and construction and characterization of mutants.

Infect Immun. 2000 Nov;68(11):6250-6.

PMID: 11035732 [PubMed - indexed for MEDLINE]

- ☐ 6: [Mathers K, Leinonen M, Goldblatt D.](#) Related Articles, Links



Antibody response to outer membrane proteins of *Moraxella catarrhalis* in children with otitis media.

Pediatr Infect Dis J. 1999 Nov;18(11):982-8.

PMID: 10571435 [PubMed - indexed for MEDLINE]









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Analysis of antigenic structure and human immune response to outer membrane protein CD of *Moraxella catarrhalis*.

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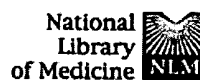
PMID: 10456903 [PubMed - indexed for MEDLINE]

- ☐ **8:** Luke NR, Russo TA, Luther N, Campagnari AA. Related Articles, Links
 Use of an isogenic mutant constructed in *Moraxella catarrhalis* To identify a protective epitope of outer membrane protein B1 defined by monoclonal antibody 11C6.
Infect Immun. 1999 Feb;67(2):681-7.
PMID: 9916077 [PubMed - indexed for MEDLINE]
- ☐ **9:** Kyd JM, Cripps AW, Murphy TF. Related Articles, Links
 Outer-membrane antigen expression by *Moraxella* (*Branhamella*) *catarrhalis* influences pulmonary clearance.
J Med Microbiol. 1998 Feb;47(2):159-68.
PMID: 9879959 [PubMed - indexed for MEDLINE]
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- ☐ **10:** Murphy TF, Kyd JM, John A, Kirkham C, Cripps AW. Related Articles, Links
 Enhancement of pulmonary clearance of *Moraxella* (*Branhamella*) *catarrhalis* following immunization with outer membrane protein CD in a mouse model.
J Infect Dis. 1998 Dec;178(6):1667-75.
PMID: 9815219 [PubMed - indexed for MEDLINE]
- ☐ **11:** Giebink GS. Related Articles, Links
 Vaccination against middle-ear bacterial and viral pathogens.
Ann N Y Acad Sci. 1997 Dec 29;830:330-52. Review.
PMID: 9616694 [PubMed - indexed for MEDLINE]
- ☐ **12:** Mathers KE, Goldblatt D, Aebi C, Yu R, Schryvers AB, Hansen EJ. Related Articles, Links
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FEMS Immunol Med Microbiol. 1997 Nov;19(3):231-6.
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- ☐ **13:** Boel E, Bootsma H, de Kruif J, Jansze M, Klingman KL, van Dijk H, Logtenberg T. Related Articles, Links
 Phage antibodies obtained by competitive selection on complement-resistant *Moraxella* (*Branhamella*) *catarrhalis* recognize the high-molecular-weight outer membrane protein.
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- ☐ **14:** Sethi S, Surface JM, Murphy TF. Related Articles, Links
 Antigenic heterogeneity and molecular analysis of CopB of *Moraxella* (*Branhamella*) *catarrhalis*.
Infect Immun. 1997 Sep;65(9):3666-71.
PMID: 9284135 [PubMed - indexed for MEDLINE]
- ☐ **15:** Bhushan R, Kirkham C, Sethi S, Murphy TF. Related Articles, Links
 Antigenic characterization and analysis of the human immune response to outer membrane protein E of *Branhamella catarrhalis*.
Infect Immun. 1997 Jul;65(7):2668-75.
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- ☐ 16: [Rahman M, Holme T, Jonsson I, Krook A.](#) Related Articles, Links
 Human immunoglobulin isotype and IgG subclass response to different antigens of *Moraxella catarrhalis*.
APMIS. 1997 Mar;105(3):213-20.
PMID: 9137517 [PubMed - indexed for MEDLINE]
- ☐ 17: [Christensen JJ, Hansen NQ, Bruun B.](#) Related Articles, Links
 Serum antibody response to outer membrane proteins of *Moraxella* (*Branhamella*) *catarrhalis* in patients with bronchopulmonary infection.
Clin Diagn Lab Immunol. 1996 Nov;3(6):717-21.
PMID: 8914764 [PubMed - indexed for MEDLINE]
- ☐ 18: [Campagnari AA, Ducey TF, Rebmann CA.](#) Related Articles, Links
 Outer membrane protein B1, an iron-repressible protein conserved in the outer membrane of *Moraxella* (*Branhamella*) *catarrhalis*, binds human transferrin.
Infect Immun. 1996 Sep;64(9):3920-4.
PMID: 8751951 [PubMed - indexed for MEDLINE]
- ☐ 19: [Hsiao CB, Sethi S, Murphy TF.](#) Related Articles, Links
 Outer membrane protein CD of *Branhamella catarrhalis*: sequence conservation in strains recovered from the human respiratory tract.
Microb Pathog. 1995 Oct;19(4):215-25.
PMID: 8825909 [PubMed - indexed for MEDLINE]
- ☐ 20: [Sethi S, Hill SL, Murphy TF.](#) Related Articles, Links
 Serum antibodies to outer membrane proteins (OMPs) of *Moraxella* (*Branhamella*) *catarrhalis* in patients with bronchiectasis: identification of OMP B1 as an important antigen.
Infect Immun. 1995 Apr;63(4):1516-20.
PMID: 7890418 [PubMed - indexed for MEDLINE]

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PubMed☐ **21:** [Bhushan R, Craigie R, Murphy TF.](#) [Related Articles, Links](#)

Molecular cloning and characterization of outer membrane protein E of *Moraxella (Branhamella) catarrhalis*.
J Bacteriol. 1994 Nov;176(21):6636-43.
PMID: 7961416 [PubMed - indexed for MEDLINE]

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Services☐ **22:** [Carson RT, McDonald DF, Kehoe MA, Calvert JE.](#) [Related Articles, Links](#)

Influence of Gm allotype on the IgG subclass response to streptococcal M protein and outer membrane proteins of *Moraxella catarrhalis*.
Immunology. 1994 Sep;83(1):107-13.
PMID: 7529743 [PubMed - indexed for MEDLINE]

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Purification and characterization of a high-molecular-weight outer membrane protein of *Moraxella (Branhamella) catarrhalis*.
Infect Immun. 1994 Apr;62(4):1150-5.
PMID: 8132320 [PubMed - indexed for MEDLINE]

☐ **24:** [Sarwar J, Campagnari AA, Kirkham C, Murphy TF.](#) [Related Articles, Links](#)

Characterization of an antigenically conserved heat-modifiable major outer membrane protein of *Branhamella catarrhalis*.
Infect Immun. 1992 Mar;60(3):804-9.
PMID: 1371769 [PubMed - indexed for MEDLINE]

☐ **25:** [Murphy TF.](#) [Related Articles, Links](#)

Studies of the outer membrane proteins of *Branhamella catarrhalis*.
Am J Med. 1990 May 14;88(5A):41S-45S. Review.
PMID: 1692665 [PubMed - indexed for MEDLINE]

☐ **26:** [Murphy TF, Bartos LC.](#) [Related Articles, Links](#)

Surface-exposed and antigenically conserved determinants of outer membrane proteins of *Branhamella catarrhalis*.
Infect Immun. 1989 Oct;57(10):2938-41.
PMID: 2476393 [PubMed - indexed for MEDLINE]

☐ **27:** [Bartos LC, Murphy TF.](#) [Related Articles, Links](#)

Comparison of the outer membrane proteins of 50 strains of *Branhamella catarrhalis*.
J Infect Dis. 1988 Oct;158(4):761-5.
PMID: 3139777 [PubMed - indexed for MEDLINE]

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- ☐ 1. [20020173024](#). 07 Jun 01. 21 Nov 02. Nucleic acid sequences encoding type III tenebrio antifreeze proteins and method for assaying activity. Horwath, Kathleen L., et al. 435/199; 435/252.3 435/320.1 435/6 435/69.1 536/23.1 C12Q001/68 C07H021/02 C07H021/04 C12N009/22 C12P021/02 C12N001/21.
- ☐ 2. [20020172951](#). 07 Jun 01. 21 Nov 02. Nucleic acid sequences encoding type III tenebrio antifreeze proteins and method for assaying activity. Horwath, Kathleen L., et al. 435/6; C12Q001/68.
- ☐ 3. [20020168738](#). 29 Oct 99. 14 Nov 02. DNA FRAGMENT CARRYING TOLUENE MONOOXYGENASE GENE, RECOMBINANT PLASMID, TRANSFORMED MICROORGANISM, METHOD FOR DEGRADING CHLORINATED ALIPHATIC HYDROCARBON COMPOUNDS AND AROMATIC COMPOUNDS, AND METHOD FOR ENVIRONMENTAL REMEDIATION. YANO, TETSUYA, et al. 435/189; 435/320.1 536/23.2 588/248 800/21 800/9 C12P021/06.
- ☐ 4. [20020102604](#). 07 Dec 00. 01 Aug 02. Full-length human cDNAs encoding potentially secreted proteins. Milne Edwards, Jean-Baptiste Dumas, et al. 435/7.1; 530/350 536/23.1 G01N033/53 C07H021/02 C07H021/04 C07K001/00 C07K014/00 C07K017/00.
- ☐ 5. [20020009773](#). 16 Jun 99. 24 Jan 02. DEATH DOMAIN CONTAINING RECEPTORS. YU, GUO-LIANG, et al. 435/69.1; 435/320.1 435/325 514/2 530/324 530/325 530/387.9 536/23.5 A01N037/18 A61K038/00 C07H021/04 C12P021/06 C12N015/00 C12N015/09 C12N015/63 C12N015/70 C12N015/74 C07K005/00 C07K007/00 C07K016/00 C07K017/00 C12N005/00 C12N005/02 C07K001/00 C07K014/00 C12P021/08.
- ☐ 6. [6019984](#). 23 Dec 96; 01 Feb 00. Bacterial preparations, method for producing same, and their use as vaccines. MacInnes, Janet, et al. 424/255.1; 424/184.1 424/278.1 424/823 424/824 424/825 424/826 424/827 424/828 424/829 424/93.2 424/93.4 424/93.48 435/243. A61K039/102 A61K039/02 A01N063/00 C12N001/00.
- ☐ 7. [5494672](#). 04 Jan 91; 27 Feb 96. Pseudomonas peptide composition and method. Hodges, Robert S., et al. 424/260.1; 424/184.1 424/185.1 424/242.1 530/326 530/327 530/328. A61K038/00 A61K038/04 A61K039/104 A61K039/02.

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- ☐ 2. [6214981](#). 12 Nov 97; 10 Apr 01. *Moraxella* catarrhalis outer membrane protein-106 polypeptide, gene sequence and uses thereof. Tucker; Kenneth, et al. 536/23.1; 424/184.1 424/190.1 424/234.1 536/23.7. C07H021/02.
- ☐ 3. [5888760](#). 10 Apr 97; 30 Mar 99. Universal test systems and methods of use thereof for identifying multiple families of microorganisms. Godsey; James H., et al. 435/34; 435/12 435/14 435/19 435/21 435/23 435/24 435/843 435/851 435/853 435/871 435/882 435/885 435/968. C12Q001/04 C12Q001/54 C12Q001/37 C12Q001/44.
- ☐ 4. [5166331](#). 19 Dec 89; 24 Nov 92. Hyaluronic acid fractions, methods for the preparation thereof, and pharmaceutical compositions containing same. della Valle; Francesco, et al. 536/55.1; 424/78.05 514/420 514/54 514/576 514/777 514/912. C07H005/04 C07H005/06 A01N043/04 A61K037/715.
- ☐ 5. [US 6214981 B1](#). Novel nucleotide sequences encoding *Moraxella* catarrhalis outer membrane protein-106 polypeptide, useful for diagnosis of bacterial infections and as vaccine against *Moraxella* catarrhalis infection of mammals. PLOSILA, L, et al. C07H021/02.
- ☐ 6. [JP 2002525110 W](#) [WO 200018910 A1](#) [AU 9964100 A](#) [EP 1117779 A1](#). Isolated outer membrane protein from a *Moraxella* catarrhalis strain used for diagnosis treatment and prevention of disease caused by *M. catarrhalis* e.g. pneumonia, otitis media and respiratory infections. TILLMANN, U F, et al. A61K009/127 A61K009/14 A61K009/48 A61K031/711 A61K035/16 A61K038/00 A61K039/02 A61K039/09 A61K039/095 A61K039/104 A61K039/106 A61K039/39 A61K039/395 A61K048/00 A61P011/00 A61P011/02 A61P027/16 A61P031/04 C07K004/04 C07K014/00 C07K016/00 C07K016/12 C12N001/15 C12N001/19 C12N001/21 C12N005/10 C12N015/09 C12N015/11 C12P021/02 C12Q001/68 G01N033/53 G01N033/569 C12N001/21 C12R001:01.

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A mutation affecting expression of a major outer membrane protein of *Moraxella catarrhalis* alters serum resistance and survival in vivo.

Helminen ME, Maciver I, Paris M, Latimer JL, Lumbley SL, Cope LD, McCracken GH Jr, Hansen EJ.

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A major outer membrane protein (CopB) of *Moraxella catarrhalis* is a target for antibodies that enhance clearance of this organism from the lungs of mice. A mini-Tn10kan transposon was inserted into the cloned copB gene from *M. catarrhalis* O35E, and an isogenic mutant unable to express the CopB protein was constructed by transforming this mutated gene into the wild-type strain. The mutant grew at the same rate as the wild-type parent strain in broth. Unlike the serum-resistant parent strain, this mutant was sensitive to killing by normal human serum, and its ability to survive and grow in the lungs of animals was impaired. Genetic restoration of CopB protein expression resulted in the simultaneous acquisition of wild-type levels of serum resistance and the ability to resist pulmonary clearance in vivo. Thus, the CopB protein of *M. catarrhalis* may be important in the interaction between this organism and the defense mechanisms of the respiratory tract.

PMID: 8228353 [PubMed - indexed for MEDLINE]

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